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(54) Title: PROCESS FOR PREPARING CYCLIC ORGANOHYDROGENSILOXANES

(57) Abstract: A process for preparing cyclic organohydrogensiloxanes comprises: (A) contacting a silane of the formula RHSiCl_2 , where R is selected from alkyl radicals having 1 to 12 carbon atoms and aryl radicals, with water to form a hydrolyzate comprising cyclic organohydrogensiloxanes and linear organohydrogensiloxanes, and (B) contacting the hydrolyzate with an acidic rearrangement catalyst in the presence of an inert liquid diluent to increase the ratio of the cyclic organohydrogensiloxanes to linear organohydrogensiloxanes in the hydrolyzate. The acidic rearrangement catalyst is an organic compound containing a strong acid group, for example a sulphonic acid, which is dissolved in the inert diluent present.

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